

Ship sustainably

SUMMARY REPORT OF ACHIEVEMENTS
IN SUSTAINABLE DEVELOPMENT 2018





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Transport. Preserve. Protect.



Message from the President and Chief Executive Officer



As trade keeps globalizing, consumer needs keep increasing and cargo volumes keep growing, the Port of Montreal keeps breaking records, year after year. Our port activities generate considerable benefits and inject billions of dollars into the Canadian economy. We welcome this, and it is excellent news for the economic development of Montreal, Quebec and Canada. Better yet, we welcome growth as seriously as we take protecting the environment.

At the Port of Montreal, we firmly believe that it is possible to align economic development and sustainable development, and that is why we put sustainable development at the core of our strategic plan. In a global context where vessels carry 80% of the world's goods, we are fully aware of our role in bringing about a future that is not only greener, but bluer.

We are trying as hard as ever to be attentive to surrounding communities and integrate harmoniously into the urban fabric. Our new Grand Quay at the Port of Montreal, formally inaugurated on June 3, 2018, brings this to life with its magnificent green spaces on the riverfront open to the public free of charge.

Through our major infrastructure projects, we are determined to develop the Port with the greatest

respect for the environment, to minimize our impacts, to preserve the ecosystem and to compensate where necessary. We are also addressing logistical issues, such as improving fluidity in tandem with meeting our GHG reduction targets.

More than ever, we believe that innovation is a tool of choice to achieve our objectives across the board: greater efficiency and better performance to both welcome growth and stand out as a leader in sustainable development. We are very proud to present our achievements for 2018 in this report!

I hope you enjoy reading about them,

Sylvie Vachon
President and Chief Executive Officer
Montreal Port Authority

Sustainable development policy statement

“The Montreal Port Authority is committed to fulfilling its mission by continuously working to maximize the economic, social and environmental benefits of its activities through effective governance.

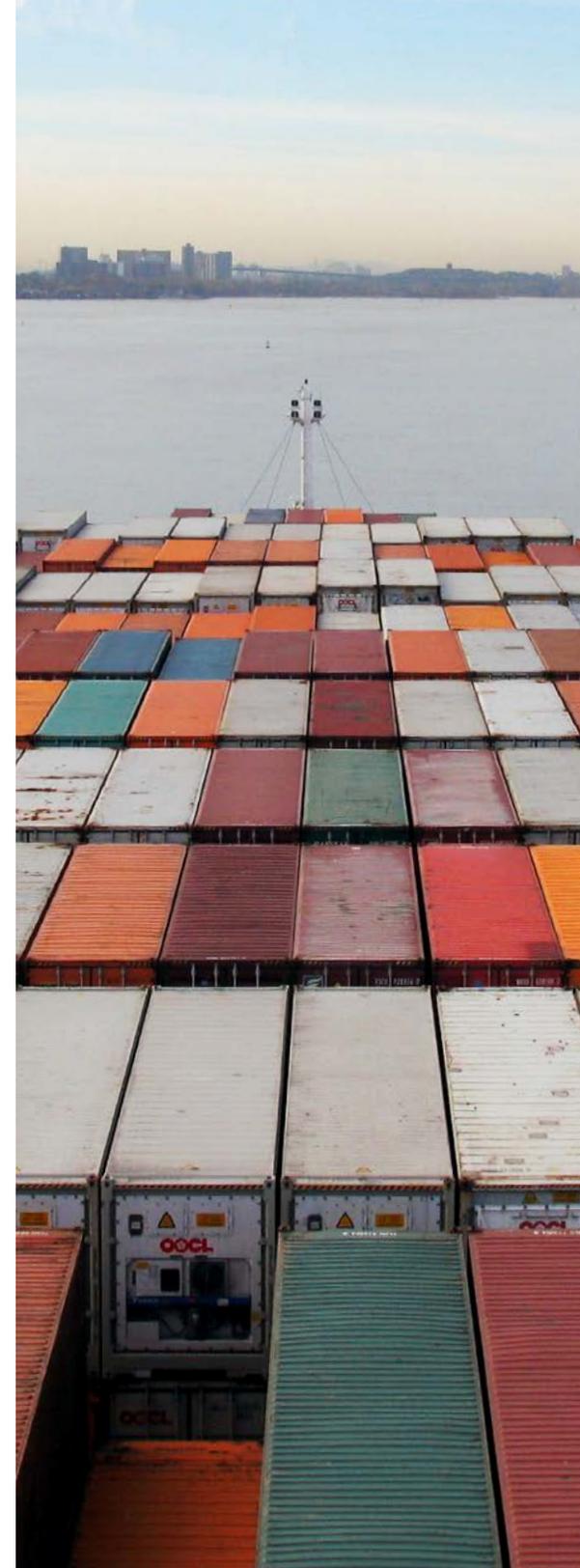
Our commitment to take concrete and lasting sustainable development measures is set out in a policy where involvement, cooperation and accountability serve as our guiding principles.

Our priority is to reduce the environmental footprint of our activities through responsible consumption and by efficiently managing our environmental heritage. We adopt working practices that respect the environment and use technologies that improve performance and reduce impacts.

Our objective is to assume a leadership role alongside our stakeholders and within the marine industry as a whole to secure their buy-in with regards to sustainable development principles. We want to contribute to the conservation of our cultural heritage, promote education related to maritime careers and support socioeconomic and environmental projects in the community.

Within our organization, we want to provide a stimulating work environment based on collaboration where our employees can develop their sense of responsibility and commitment while ensuring the security and safety of our operations.

We believe that by building long-term relationships, maintaining constructive dialogue and taking concrete action in sustainable development, our port is more efficient, secure and environmentally friendly, and better integrated into the city, in harmony with communities and the environment.”





Our approach

In 2015, the MPA completed its five-year action plan for sustainable development. With a view to continuous improvement, it turned to a three-year action plan for 2016–2018 to address stakeholders' expectations with greater agility. Exceptionally, this plan has been extended to 2019. Now that this “three-year” plan covers 2016–2019, the next three-year sustainable development plan will cover 2020–2022, and align with the MPA's 2020–2022 strategic plan.

The MPA draws inspiration from international accountability standards, which it is progressively incorporating into its annual sustainable development reports, specifically the Global Reporting Initiative (GRI) guidelines, which help organizations better communicate the impacts of their activities on critical sustainable development issues. In this respect, it is a key tool to promote change, highlighting the most important elements for organizations and their stakeholders.

With this in mind, in 2016 we conducted a survey to better understand the sustainable development issues that internal and external stakeholders see as the most important. This materiality analysis was conducted through a confidential survey completed by 54 people, including members of the internal

Sustainable Development Committee, members of the MPA's management and Interdepartmental Committee, and members of the Good Neighbourhood Committee. The latter, formed by the MPA in 2014, brings together stakeholders from adjoining communities, non-governmental organizations dedicated to environmental protection and private companies such as tenants and suppliers.

The survey results enabled us to identify and validate the most important sustainable development issues for the MPA and its stakeholders. A new materiality matrix using a more comprehensive survey will be created during the next three-year plan covering 2020–2022.

Three-year sustainable development action plan

The MPA's three-year sustainable development action plan for 2016–2019 is based on five orientations, six objectives, 21 targets and 24 performance indicators.



The five orientations of the three-year action plan:

- 1. Improve air and water quality**

- 2. Enhance the MPA's service offer**

- 3. Ensure the responsible management of MPA infrastructures and resources**

- 4. Offer a mobilizing and safe working environment**

- 5. Forge long-term harmonious relationships with our stakeholders**



The six guiding principles of the MPA's sustainable development policy:

- 1. Ensure the responsible management of our organization**

- 2. Contribute to the prosperity of society**

- 3. Provide a stimulating work environment**

- 4. Reduce our environmental footprint**

- 5. Ensure that safety and security remain core operating values**

- 6. Ensure the Port of Montreal's economic mission**



The top ten challenges drawn from the materiality matrix:

- 1. Prevention of leaks and spills**
- 2. Organizational probity, ethics and integrity**
- 3. Occupational health and safety**
- 4. Water pollution**
- 5. Quality of services**
- 6. Regulatory conformity**
- 7. Maritime connectivity and intermodality**
- 8. Transportation security**
- 9. Waste and dangerous goods management**
- 10. Economic performance**



Improve air and water quality

OBJECTIVE

To be a responsible port by preventing pollution and limiting environmental impacts related to atmospheric emissions



Main achievements in 2018

- Reducing greenhouse gas emissions remains a priority for the Port of Montreal. To calculate the footprint of GHG emissions on Port territory and then establish a GHG emissions management plan, an inventory of GHG and air contaminants for 2017 throughout Port territory (Montreal and Contrecoeur) was carried out using the tool developed by Transport Canada for ports and licensed by Green Marine for its members. Ten terminal operators participated in this inventory.
 - On Port territory (Montreal and Contrecoeur), GHG emissions were 171,599 tonnes (metric tons) carbon dioxide equivalent (CO₂ e).
 - In terms of intensity, emissions were 4.5 kg (CO₂ e) per tonne handled.
 - GHG emissions specific to the MPA per tonne of cargo handled have been steadily decreasing over the past six years.
 - The 2017 GHG inventory indicates that vessels calling the Port of Montreal, in territorial waters under the MPA's jurisdiction, accounted for 70% of the emissions (121,576 tonnes). Of these emissions, 70% came from docked vessels as they were being unloaded/loaded.
- To reduce these emissions, meetings were initiated with vessel operators to assess power connection options for vessels in service. A mandate was granted to evaluate the investments required to set up the infrastructure to provide electrical connections for ships at priority sites.
- Shore power for wintering and cruise ships reduced GHG emissions by 1,016 tonnes in 2017.
- Details of the GHG inventory can be found at: <https://www.port-montreal.com/files/PDF/Developpement-durable/2019-Sommaire-Inventaire-GES.pdf>

Improve air and water quality

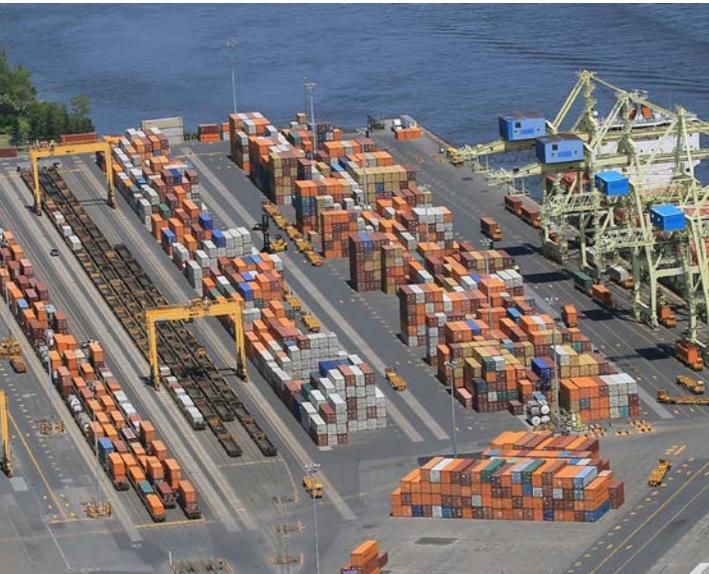
- Clean energy is now a viable alternative to more polluting fuels.
 - The MPA hosted the inauguration of the *N/C Mia Desgagnés*, the world's first dual-fuel powered polar class chemical oil tanker. The *Mia Desgagnés* joins the *Damia Desgagnés* in the next generation fleet at the cutting edge of technology that can be fuelled by liquefied natural gas (LNG), which is about 30% less polluting than traditional fuels.
 - Steps are underway to promote the use of this lower GHG-emitting fuel by making a second refuelling site more accessible to vessels that can use LNG.
 - The MPA's parking lots were fitted out to accommodate electric vehicles by installing charging stations to promote green transportation. Two charging stations were installed in 2018 in Section 42 and four electrical outlets are available at MPA headquarters, Wing 2, Cité du Havre (CDH). Port infrastructure is set to accommodate additional charging stations as required in the future.
- Several measures have been implemented to optimize the rainwater collection and treatment network
 - Eight hydrodynamic separators were installed on Port territory by the MPA between 2016 and 2018. Two hydrodynamic separators will be installed at MPA headquarters (CDH) and Bickerdike Terminal in 2019.
 - In 2018, the MPA completed a study on surface water drainage at dry bulk facilities in Contrecoeur. The project works are planned to separate the various networks from the tenants, optimize profiles to improve rainwater flow and build a retention pond to limit the discharge of suspended solids.



Enhance the MPA's service offer

OBJECTIVE

To be an agile and competitive port that ensures its role as an economic driver by innovating, enhancing and diversifying its service offer.



Main achievements in 2018

- The year 2018 was marked by a new record in the container sector with a total of 1.7 million containers handled, up 9% compared to last year. A total of 39 million tonnes (metric tons) of cargo were handled in 2018, up 2.3% compared to last year. This is the fifth consecutive record-breaking year for the total volume of cargo handled.
- The cruise sector was also marked by a record 127,000 passengers and crew members, up 11% over 2017.
- The Port of Montreal's economic impact amounts to \$2.6 billion in terms of its contribution to national GDP, of which \$1.6 billion is concentrated in Quebec.
- The total processing time for trucks on Port territory in 2018 was 54 minutes, the same as in 2017. Despite this unchanged performance, the result remains positive given that total truck volume rose 4%.

- To support this positive result, and after recurrent bouts of congestion in spring 2018, terminal opening hours were extended (6 a.m. to 11 p.m.) in September 2018. As the pilot project generated positive results on truck processing times, the terminal operators decided to permanently adopt these new hours for the four international terminals.
- In addition, the mobile Trucking PORTal web application was updated. To improve efficiency and reduce congestion, alerts were issued notifying drivers of obstructions, mainly train passages.
- Two new container shipping services were added to Montreal in 2018: Maersk Line with its introduction of the Mediterranean-Montreal Express and Hamburg Süd with the arrival of the Cape Portland at Cast Terminal.

Enhance the MPA's service offer

- The Port of Montreal participated in several events to showcase its innovative and economic leadership:
 - At the “Smart Ports: Facing the Digital Challenge” event, the Port of Montreal presented its activities to visitors from the transportation industry;
 - The third edition of chainPORT Academy, hosted by the MPA, brought together the association's eight member ports to share their knowledge and experience in the use of advanced technology and innovation, along with their best practices in digital transformation;
 - The first chainPORT hackathon, a three-day creative marathon, held simultaneously at the ports of Antwerp and Los Angeles, concerted the efforts of the world's best innovative startups to competitively apply their ingenuity and meet the challenges posed by participating port authorities from around the world.
- CargoM's Career Day in Transportation and Logistics attracted more than 1,500 people to check out the job openings in the sector.
- The Port of Montreal also joined IBM and Maersk's TradeLens Project to digitize the shipping logistics ecosystem and advance the development of more efficient and secure international trade.
- The MPA continued its partnership with ÉTS (École de technologie supérieure) by launching an innovation unit in port logistics at the new Centech Montreal. The first of its kind in North America, its goal is to develop digital solutions and introduce emerging technologies that benefit Montreal's port ecosystem. One of the unit's main areas of work is supply chain decarbonization.
- The port authorities of Montreal and Trois-Rivières signed a cooperation agreement that focusses on four areas: marine operations, environmental management, port logistics and port/city relations.
- The MPA and the Fonds de solidarité FTQ signed an agreement to create the Fonds de solidarité FTQ-Port of Montreal Logistics Financing Partnership, a \$100 million envelope intended for any company with a development project in Greater Montreal of benefit to the Port's logistics chain.



Ensure the responsible management of MPA infrastructures and resources

OBJECTIVE

To be an innovative port by adopting new technologies to reduce the environmental footprint of our activities and by encouraging the beneficial reuse of materials in our infrastructures



Main achievements in 2018

- The MPA integrated new technologies and sustainable materials into its infrastructure:
 - VOC-free paint was used.
 - Roofs were recovered with a white finish to reduce heat islands.
- Energy efficiency was improved:
 - Compared to 2016, CDH's electricity consumption in 2018 (3.8 million kWh) was reduced by 14.6%. The effects of the building improvements as a whole are paying off. For Section 42, electricity consumption combines building and operating activities including rail. Electricity consumption rose 2.3% in 2018 (72 M kWh) compared to 2016. However, it should be noted that since 2017, the trend has been downward with a 1.1% decrease in electricity consumption.
 - Steam or glycol heating units were replaced by local natural gas or electric heating units.
 - The MPA power grid was used to replace generators for dock repair work.
- Consumption of drinking water decreased. At CDH, consumption fell from 22,213 m³ in 2015 to 9,700 m³ in 2018, a 56.3% reduction. This result reflects the beneficial effects of the building improvements in 2016–2017, such as the optimization of water tower operating sequences and a new regulatory control system. There was also a substantial decrease (31.6%) in water consumption at Section 42, from 2,996 m³ in 2015 to 2,050 m³ in 2018. To achieve this, several measures were implemented:
 - 150 mm (156 metres) water main casing and 300 mm (2,764 m) pipe casing to reduce drinking water losses and the scope of excavation work needed to replace pipes.
 - Water leak sealing work on various operational components.
- Modifications to 13 of the 17 outlets in the drinking water distribution networks for wintering vessels resulted in a reduction of 650,000 m³ of drinking water per year.

Ensure the responsible management of MPA infrastructures and resources

- The quantity of materials for disposal was reduced. Among the initiatives that made this reduction possible are:
 - Discontinuation of the supply of water bottles at CDH, which were replaced by water jugs in the meeting rooms and the installation of filtered water taps in all coffee areas;
 - Implementation of an annual process for environmentally responsible recycling and disposing of old technological equipment (e.g. Wi-Fi access points, hubs, workstations);
 - Reuse of air conditioning units.
- The MPA also prioritized the recovery and reuse of materials in its construction and maintenance projects.
 - 118 tonnes of recycled asphalt
 - 831 tonnes of recycled concrete
 - Dock fenders made by converting used tires

Residual materials recycled during 2018:

- **Alkaline batteries: 200 kg**
- **Lead-acid batteries: 350 kg**
- **Paint thinner: 400 litres**
- **Aerosols: 400 kg**
- **Used oils: 750 litres**
- **Oil filters, soiled absorbent material, soiled rags, waste air filters: 2,900 kg**
- **Oily water: 650 litres**
- **Metal: 5 tonnes (metric tons)**
- **Tires less than 55 inches in diameter: 100**
- **Fluorescent tubes: 576 m/li**

Offer a mobilizing and safe work environment

OBJECTIVE

To be a responsible port by placing a great deal of importance on the health and safety of employees. To maintain a harmonious work environment by encouraging employee development, involvement and engagement



Main achievements in 2018

- Actions were taken to enhance the level of employee engagement. To achieve this, efforts were made to create a work environment that fosters collaboration, engagement, innovation and employee accountability. It is noteworthy that the number of employees who did not feel engaged dropped 5% compared to 2015, the number who felt partially engaged remained the same and the number who felt fully engaged rose 6%.
 - Sports teams were formed to enter charitable events (MS Bike Tour, Desgagnés Kayak Challenge).
 - The service recognition program for employees with five and ten years of service introduced in 2017 was maintained and in 2018, eleven employees with five years' service and ten employees with ten years' service were recognized in 2018.
 - Yoga classes were given on the MPA's premises.
 - Throughout the fall of 2018, the MPA offered free apples from an orchard in the Saint-Joseph-du-Lac region to encourage the consumption of fresh local produce.
- A fleet of 12 recycled bikes for recreational use was purchased for Port of Montreal employees from a social and work integration organization in the Hochelaga-Maisonneuve district.
- In 2018, the MPA signed a contract with the urban beekeeping company Alvéole to set up two hives on CDH property. The hives will be installed in spring 2019 and there will be training for employees. The honey collected will be redistributed to our employees and partners.
- The collective agreement for office employees was signed, bringing us to a total of four out of five collective agreements with a term exceeding five years. In addition, it was announced that the evaluation system for professional and technical jobs would be revised.
- Two committees were created at the request of employees, for work schedules and group RRSPs.
- At the end of 2018, the MPA launched an incentive program to encourage employees to use public transit by paying 40% of the cost of an STM OPUS card covering Montreal.

Offer a mobilizing and safe work environment

- Work accidents declined. Compared to 2016, there was a 31% decrease in the number of work accidents and a 76% reduction in the number of minor incidents or injuries. The number of workdays lost between 2017 and 2018 fell from 535 to 201, a 62% drop. Several measures contributed to this positive result:
 - Two major health and safety contracts were awarded, one to have a consultant present two days a week and the other to develop a master plan for contractors working on MPA property.
 - Several training courses were provided on such topics as rail regulations, safety in rail track switching, hazardous materials, response management and OHS measures, as well as breathing apparatus training, first aid and CPR, and marine first aid and CPR.
 - The ten OHS Committee meetings planned for the year were held.
 - Five of our safety practitioners successfully completed Emergency First Responder—Level 2.
 - The MPA co-chaired a multi-agency government working group to evaluate the rules for efficient and safe transit of post-Panamax vessels on the St. Lawrence River.
 - The MPA held stakeholder consultations as part of the revision of its Practices and Procedures aimed to continuously improve procedures ensuring the safety and security of marine operations in the Port (protection of the environment, property and people).
- The MPA supported employees in the development and maintenance of their skills. It should be noted that the turnover rate is virtually zero.
 - The “Info in Motion” communication initiative launched in 2017 was maintained, ensuring that all employees kept receiving the information discussed in interdepartmental meetings.
 - Training on various topics was offered to all employees, as relevant to them, for a total of about 2,563 hours of training.



Forge long-term harmonious relationships with our partners

OBJECTIVE

To be a respectful, attentive port by properly informing the public and neighbouring communities about our activities or projects and by taking concrete action to minimize the impact of our operations



Main achievements in 2018

- Throughout the year, the Port of Montreal continued to support and remain active in its neighbouring communities.
 - Under its community investment policy, the MPA accepted about 70 project applications and financially contributed a total of \$240,000 in support of organizations in Montreal and Contrecœur such as the Antre-Jeunes de Mercier-Est youth services centre, Sentier urbain community organization, Young Musicians of the World, the Village au Pied-du-Courant public gathering and entertainment site, Vélo-pousse-Maison-neuve pedicab tour service, Barbe-Denys-de-La-Trinité Park in Contrecœur, Technopole maritime and ÉcoMaris education program.
 - Conventional back-up alarms on the Viau and Racine terminals were replaced by white noise alarms. The MPA also changed the back-up alarms on all its heavy vehicles. Since this new generation of alarms began to be used, no complaints on back-up noise have been received.
 - Employees were directly involved in fundraising and volunteer activities, notably the school supply drive for Carrefour d'Alimentation et de Partage Saint-Barnabé, United Way, the Women's Centre of Montreal and Mariners' House.
- The MPA was also involved in projects to help the Port integrate better into the urban fabric. It became a member of an urban revitalization initiative in the Guybourg-Longue-Pointe sector, participated in the development of the Programme particulier d'urbanisme des Faubourgs in Ville-Marie, remained a member of the committee on social acceptability and neighbourhood disorders run by the Quebec Business Council on the Environment (CPEQ), the Corporate Social Responsibility (CSR) network of the CPEQ, and a partner in Sustainable Montreal 2016–2020, a City of Montreal initiative. In addition, a working group was set up in Mercier-Est to improve the port/city interface.
- The MPA remained a signatory to the municipal commitment to purchase products and services from social economy enterprises, “L'économie sociale, j'achète.”
- The Good Neighbourhood Committee, created to foster good relations with our neighbours, stay attentive to their concerns and lay the groundwork for solutions ensuring optimally peaceful cohabitation, met for the ninth time since its inception (two meetings in 2018).

Forge long-term harmonious relationships with our partners

- To promote efficient port operations that respect the environment and the community, the Port of Montreal developed several green and sustainable initiatives.
 - The Grand Quay was developed with outstanding public spaces, accessible free of charge, that include a vast lawn on the waterfront, a green roof with 24,000 flowering and aromatic plants, and summer-long activities such as dancing, outdoor movies, the International des feux de Loto-Québec fireworks competition, a public piano and storytelling. Key events such as Port in the City Day, held to introduce Montrealers to the Port from a cruise ship, attracted 2,120 visitors, and the family fun celebration held for the Grand Quay's opening attracted 13,000 visitors.
 - The MPA committed to greening Montreal and enhancing its canopy by joining the Greening Leaders Committee of Montreal. We made a commitment to plant 2,000 trees over the next five years, starting with about 100 trees planted in the fall of 2018 near Cast Terminal and on Notre-Dame Street. Soverdi prepared a five-year greening plan (2018–2023) in 2018 to steer the planting program to fulfil the MPA's commitment.
 - In concert with Fednav, the MPA sent a team of employees to help clean up the banks of Promenade Bellerive Park as part of the Great Canadian Shoreline Cleanup.
- The MPA was driven by its concern to maintain ongoing dialogue with the community through information and communication processes, along with its electronic channels.
 - More than 10,000 people, including elected officials and dignitaries, representatives of associations and the media, benefited from presentations and visits to Port facilities.
 - Logbook e-magazine, our newsletters and press releases were sent to the 6,000 subscribers on our mailing lists. The number of our social network subscribers rose 23.7% over 2017. Other means of communication included letters to neighbours and various written communications (about 50 with Habitat 67 residents concerning the American ship at Bickerdike Pier).
 - Public hearings and meetings with residents were held in the Viau and Cité du Havre sectors to review noise pollution issues. Furthermore, the Port of Montreal participated in the CEEA's public consultations on the Contrecoeur terminal project, at which 200 people participated and 92 briefs were submitted.

Other sustainable development issues not covered by the plan

Probity, ethics and integrity in the organization

- The procurement policy was amended to introduce, among other things, requirements in calls for tenders based on sustainable development criteria.
- Under Section 41 of the *Canada Marine Act*, the MPA carried out a special examination in 2018, which must be carried out at least once every five years. The purpose of this special examination is to ascertain by means of an external audit whether the MPA's financial and management control, information systems and management practices were maintained, and thereby ensure that:
 - Assets are safeguarded and controlled;
 - Operations are in compliance with the *Canada Marine Act* and the MPA's letters patent and by-laws; and
 - The financial, human and physical resources are managed economically and efficiently and operations are carried out effectively.
- External audits were conducted of business continuity plans (e.g., emergency measures plan, IT continuity plan and pandemic contingency plan).
- A comprehensive review of the charters, roles and mandates of the MPA Board of Directors was carried out. This exercise is ongoing in 2019 and aims to ensure that:
 - The documents accurately reflect the roles and responsibilities contained in the *Canada Marine Act*, letters patent and by-laws, and that management provides Board members with the relevant tools to ensure that these obligations are fulfilled;
 - The Board has established the appropriate committees to deal with these issues; and
 - Responsibilities are allocated to the right committees.



CONCLUSION

Striving for a sustainable future

There were more than 140 sustainable development actions/achievements in 2018. The environmental, social and economic pillars of sustainable development were all well represented.

Our efforts earned us several awards. In June 2018, Green Marine's performance report on environmental excellence revealed that the MPA ranked first among the 38 port authorities participating in this voluntary environmental certification program. The MPA earned a perfect score in the categories of GHG & Air Pollutants, Spill Prevention, Community Impacts (harmonization of uses) and Environmental Leadership, as well as 4/5 in Waste Management.

The MPA also received the Marine Environment Protection Award from the North American Marine Environment Protection Association (NAMEPA) and the Grand Prize for Excellence in Transportation, Environment Category from the Association québécoise des transports (AQTr) for its shore power supply system implemented in 2017.

Although several initiatives made it possible to achieve most of the targets in the sustainable development

plan, additional efforts will be required in 2019, notably on the following issues:

- To increase the use of alternative transportation for commuting to work. The MPA currently funds 40% of the OPUS monthly pass and 10% of STM tickets on the Island of Montreal, and the option of extending the program beyond the Island of Montreal is under consideration.
- To reduce episodes of traffic congestion, which has been one of the top factors affecting the satisfaction rate of Port users, specifically through better sharing of traffic-related information:
 - Trucking and rail transaction time by posting performance indicator reports on the website;
 - Rail operations between MPA teams and terminal operators' teams.
- To improve the energy efficiency of Workshop 42. An energy efficiency and air emissions reduction plan will be initiated in 2019.
- To further support our partners in their own initiatives to reduce congestion.

CONCLUSION

Key achievements by Port partners in 2018

Our partners are valuable allies in our sustainable development efforts. We are proud to be able to count on their support and to present a summary of their greatest achievements.

CanEst Transit

implemented a new dust extraction system to ensure that collection systems cover all the handling points generating dust. This investment of over \$700,000 makes it possible, for instance, to better clean Quebec soybeans destined for the Asian market.

Empire Stevedoring

Empire Stevedoring initiated a procurement process for a new gantry crane to replace a more energy-intensive crane and also acquired a portable spill containment tank (anti-spill unit) for all types of equipment (e. g. trucks, 53-foot containers).

Logistec

Logistec purchased a portable hopper to reduce dust emissions. Logistec was also involved in Contrecoeur as a gold partner for the city's 350th anniversary and was a financial partner with the non-profit organization behind Les événements Diable au Cœur (the Diableries de Contrecoeur festival). The company also sponsored the Contrecoeur Hunting and Fishing Association's Festival de la Brimbale and volunteered in the Contrecoeur à la rame rowing event.

Maritime Employers Association

Maritime Employers Association, through its training centre, provided its stevedores with more than 1,200 hours of training on heavy equipment simulators and 2,800 hours on electric forklift trucks in its warehouse. The use of high-performance technologies and electrical equipment enables the MEA to considerably reduce its fuel consumption and, as a result, its GHG emissions. The MEA also hired 215 employees in 2018, an increase of more than 17% in its port workforce.

Montreal Gateway Terminals Partnership (MGTP)

Montreal Gateway Terminals Partnership (MGTP) successfully completed its transition to the new ISO 14001:2015 standard. This update demonstrates management's strong commitment to continuous improvement in MGTP's environmental performance. In addition, installing broadband back-up alarms on its handling equipment made it possible to reduce noise pollution, ensuring harmonious coexistence with the neighbouring community.

Key achievements by Port partners in 2018

Norcan Oil Group

Norcan Oil Group relocated two sections of pipeline under the railways and the Port Road to Section 71 to make it easier to thoroughly inspect its pipelines by means of a smart probe. Due to rail traffic in this area, these complex project works, successfully completed, required careful planning and coordination with the numerous stakeholders.

Ocean Group

Ocean Group initiated a process to recognize opportunities for health, safety and environment (HSE) improvements in its operations. Employees were invited to develop and implement HSE improvements, making them eligible for the recognition process aimed at fostering continuous HSE improvement.

Seleine Mines—Windsor Salt

Seleine Mines—Windsor Salt acquired loaders equipped with cleaner urea-combusting engines that reduce both fuel consumption (up to 5%) and nitrogen oxide emissions.

Shell Canada Products

Shell Canada Products demolished two electrical substations containing asbestos. More than 1,900 kg of material containing 0.25 m³ of asbestos were processed. Shell also replaced transformers containing PCBs and brought some 3,500 litres of oil to an authorized site.

Suncor Energy

Suncor Energy replaced the control systems for the four fire monitors in Sections 109 and 110 with advanced technology. These monitors, two of which can be remotely controlled, are key elements in the event of an incident on a vessel. In conjunction with its suppliers and following a comprehensive FMEA (Failure Mode and Effects Analysis) process, Suncor Energy also developed strategic maintenance data sheets for all of its loading arms.

Termont

Termont continued to implement a hybrid electric technology that cuts engine use when vehicles are stationary, reducing fossil fuel consumption. In addition, Termont installed broadband (white noise) alarms on all of its equipment at Viau Terminal and much of it at Maisonneuve Terminal.

Urgence Marine

Urgence Marine increased its number of employees by 36% to maintain a high level of quality in the delivery of its marine services. Urgence Marine also diverted 50% more recovered waste materials to specialized centres.

Key achievements by Port partners in 2018

Valero Energy

Valero Energy, which became a member of Green Marine in 2018 in Montreal, was awarded the highest distinction in the Quebec government's ICI on recycle program for its Montreal East oil terminal, the Level 3 Performance Certificate, Bronze award, for its 77.9% recovery rate at the shipping operations building at the Port of Montreal's Berths 102E, 105 and 106. Valero Energy also finished a major project to resurface berths 105 and 106 using the sprayed concrete method to prevent any seepage of petroleum products into the St. Lawrence River.

Viterra

Viterra continued its excellent program of replacing existing cyclone separators with high-efficiency dust extractors. The five phases of cyclone replacement represent a very effective means to reduce particulate air emissions. By 2018, three of the five phases had been completed.

Yara Canada

Yara Canada replaced two wheeled loaders with newer models that use less diesel fuel and instead use nitrogen oxide reduction technology with urea combustion.

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